

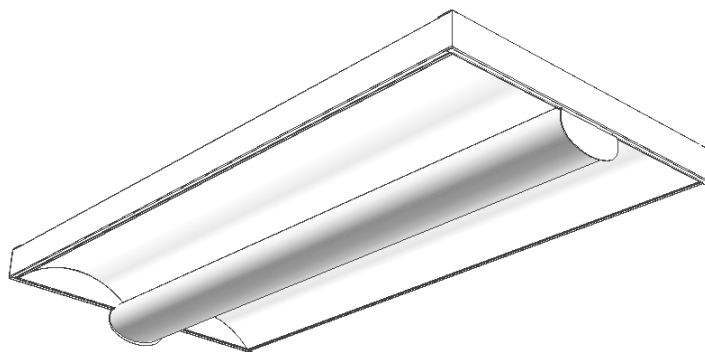
LIGHTOLIER® HP90 Surface HDB2SLW154 or 254

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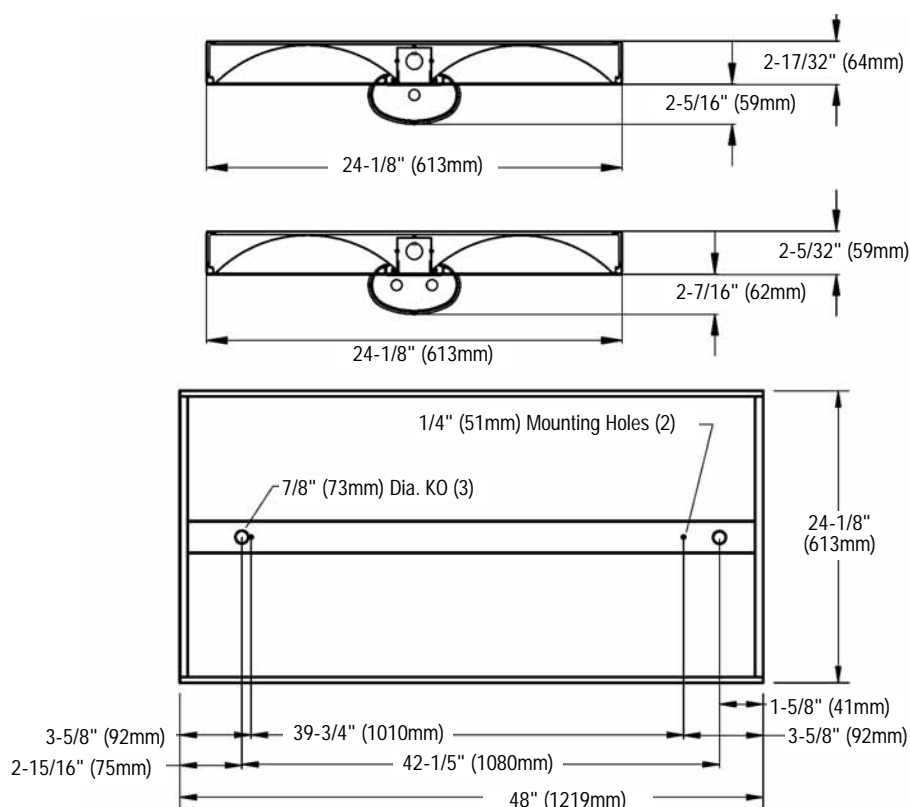
Direct/Indirect Surface Mounted Fluorescent
2' x 4' with Acrylic Linear Prismatic Lens, 1 or 2 Lamp T5

Features

- 83.6% efficient (1 lamp, 54W).
- 74.8% efficient (2 lamp, 54W).
- Direct/indirect appearance with soft contoured interior.
- Lens encloses lamp compartment.
- Translucent DR acrylic linear prismatic lens.
- Tension screws secure ends to body.
- Lamp shield opens from either side.
- Ballast accessible from room side.
- Optional DALI ballast i GEN TECHNOLOGY accepts digital dimming controllers, scene controllers and automatic control devices.
- Construction meets NYC Code / Chicago Plenum available.
- Not for continuous row mounting.



Dimensions



Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

For Factory Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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11/08

Section 5/Folio M33-25

LIGHTOLIER® HP90 Surface HDB2SLW154 or 254

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Direct/Indirect Surface Mounted Fluorescent
2' x 4' with Acrylic Linear Prismatic Lens, 1 or 2 Lamp T5

Model No. HDB2SLW154UNVPG

LER = FP - 60.5 IW - 60.8 BF - 1.0
Comparative yearly lighting energy cost per
1000 lumens = \$3.97

Report Number: G2008213A
Catalog Number: HDB2SLW154UNVPG
Lamps: (1) F54 T5 HO
Luminaire: HP90 Surface 2' x 4' with linear
prismatic lens.
Ballast: QT1X54/120PHO
Report is based on 4400 Lumens per lamp.
Efficiency: 83.6%
CIE Type-Direct-Indirect
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.2 1.4
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 47.880 23.040
Height of Side: 2.280 2.280

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	50	30	10	50	30	10
RW	70	50	30	10	50	30	10
1	88	83	79	78	74	71	69
2	79	71	65	67	61	57	55
3	72	62	54	58	52	47	56
4	66	54	46	51	44	39	49
5	60	48	40	46	39	34	44
6	55	43	35	41	34	29	40
7	51	39	31	37	31	26	36
8	48	36	28	34	28	23	33
9	45	33	26	31	25	21	30
10	42	30	23	29	23	19	28

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1053	1053	1053	
5	1046	1047	1051	100
15	997	1015	1033	287
25	906	955	996	440
35	781	868	937	541
45	626	760	864	581
55	452	641	777	562
65	272	516	677	492
75	121	392	568	391
85	26	282	469	284
90	5	179	338	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	827	18.8	22.5
0- 40	1368	31.1	37.2
0- 60	2511	57.1	68.3
0- 90	3678	83.6	100.0
90-180	0	0.0	0.0
0-180	3678	83.6	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	1187.	1407.	1562.
55	1036.	1421.	1667.
65	820.	1482.	1856.
75	558.	1670.	2251.
85	271.	2473.	3547.

Model No. HDB2SLW254UNVPG

LER = FP - 65.9 IW - 101.8 BF - 1.02
Comparative yearly lighting energy cost per
1000 lumens = \$3.64

Report Number: G2008216A
Catalog Number: HDB2SLW254UNVPG
Lamps: (2) F54 T5 HO
Luminaire: HP90 Surface 2' x 4' with linear
prismatic lens.
Ballast: B254UNV-D
Report is based on 4400 Lumens per lamp.
Efficiency: 74.8%
CIE Type-Direct-Indirect
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.2 1.4
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 47.880 23.040
Height of Side: 2.280 2.280

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1891	1891	1891	
5	1879	1881	1888	179
15	1794	1825	1852	516
25	1635	1713	1779	789
35	1410	1556	1679	972
45	1135	1367	1553	1047
55	822	1155	1397	1014
65	502	928	1204	885
75	230	699	992	695
85	50	494	782	486
90	9	302	547	

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	50	30	10	50	30	10
RW	70	50	30	10	50	30	10
1	79	75	71	70	67	64	62
2	71	64	58	60	55	51	53
3	64	56	49	52	46	42	50
4	59	49	42	46	40	35	44
5	54	43	36	41	35	30	39
6	50	39	32	37	31	26	36
7	46	35	28	33	27	23	32
8	43	32	25	31	25	21	30
9	40	29	23	28	22	18	27
10	37	27	21	26	20	17	25

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1484	16.9	22.5
0- 40	2456	27.9	37.3
0- 60	4517	51.3	68.6
0- 90	6583	74.8	100.0
90-180	0	0.0	0.0
0-180	6583	74.8	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2152.	2530.	2807.
55	1885.	2560.	2997.
65	1514.	2665.	3301.
75	1060.	2979.	3931.
85	522.	4332.	5914.

Ordering Information

Explanation of Catalog Number. Example: HDB2SLW254UNVPG

HD	B	2	S	L	W		54	UNV		
HP90 Direct/Indirect Surface	Body Style: B = Surface Mounted	Fixture Width	Ceiling Type: Surface	Acrylic Lens	Reflector: White		Lamp Quantity 1=1 Lamp 2=2 Lamp	Lamp: (By Others) 54=T5 54W (Nominal 48")	Voltage: UNV=120-277	Options: Add appropriate suffix to catalog no., ie: (A)
										Ballast Type: <20THD <10THD PG ††
										1 Lamp Elec. T5 HO (54 Watt) 2 Lamp Elec. T5 HO (54 Watt) ††Program Rapid Start (UNV only)

Options/Accessories

Fusing: Internal fast blow fusing: SUFFIX: A.

Internal slow blow fusing: SUFFIX: C.

Electrical Wiring Options: Consult factory.

For motion or light sensor: See Folio OA20-10.

Specifications

Performance: In an installation of 2 lamp 54W luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .75. To reduce glare the average brightness at 65° shall not exceed 3301 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 77.5%.

Materials: Chassis parts are die-formed code gauge steel.

Lamp Shield: Linear prismatic translucent DR acrylic lens.

Finish: Chassis exterior – Soft white post painted polyester powder.. **Cavity**

– Soft white post painted polyester powder. Rust preventative undercoating.

Reflector – Soft white post painted polyester powder.

Specifications (continued)

Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

UL Listed for damp locations.

Labels: I.B.E.W./UL and ULc Listed.

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Job Information

Type:

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